

48-32 Dialite Porcelain Polishing Kit (Project 96-13S) (5/96)

The Dialite Porcelain Polishing Kit smooths and polishes porcelain that has been adjusted with abrasives. The kit contains five pre-polish wheels that contain silicon abrasive in a hardened phenolic resin and one diamond-impregnated Dialite polishing wheel. One pre-polish point and one Dialite point are included as well as two screw-top straight handpiece mandrels for the wheels. Both the mandrels and the rubber points are mounted on straight handpiece shafts. Pre-polish and Dialite wheels, points, and cups are available on right-angle latch shafts for intraoral use. Recommended operating speeds are included with the kit. The storage container has a white plastic base and a clear plastic top and measures 65 mm high, 73 mm wide, and 52 mm deep.

Manufacturer:

Brasseler USA
800 King George Blvd.
Savannah, GA 31419
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Suggested Retail Price: (As of 2-20-98)

\$65.85 Standard Package (product no. 000-11211)
\$0.70 (5) Replacement pre-polish wheel (product no. 0301-220) 22 mm diameter X 3 mm thick
\$34.95 Replacement Dialite wheel (product no. R17D) 16 mm diameter X 2.5 mm thick
\$1.35 (3) Replacement pre-polish point (product no. 0352C) 5.5 mm diameter X 10 mm long
\$19.95 Replacement Dialite point (product no. H2D) 4.5 mm diameter X 13 mm long
\$1.70 (2) Replacement mandrel (product no. 305) 5 mm diameter

Government Price:

\$40.00 Standard Package (product no. 000-11211)
\$0.42 (5) Replacement pre-polish wheel (product no. 0301-220) 22 mm diameter X 3 mm thick
\$18.95 Replacement Dialite wheel (product no. R17D) 16 mm diameter X 2.5 mm thick
\$0.85 (3) Replacement pre-polish point (product no. 0352C) 5.5 mm diameter X 10 mm long
\$14.95 Replacement Dialite point (product no. H2D) 4.5 mm diameter X 13 mm long
\$0.95 (2) Replacement mandrel (product no. 305) 5 mm diameter
New item (not available at time of evaluation)
\$19.50 Autoclavable aluminum bur block (product no. A702) 101 mm long X 25 mm MM deep X 64 mm high

ADVANTAGES:

- + Eliminates the need to use diamond paste.
- + Ceramic restorations can be polished to a high glaze at the chair.
- + Chairside polishing saves an average of 20 minutes per insertion by eliminating the glaze firing cycle.
- + Enhances infection control because the restoration is polished at chairside and does not need to be taken to the laboratory.
- + Produces a surface that is as glossy as a glazed surface.

DISADVANTAGES:

- The Dialite wheels, points, and plastic container cannot be heat sterilized.

SUMMARY AND CONCLUSIONS:

The Dialite Porcelain Polishing Kit provides porcelain that has a smooth, glossy surface. Evaluators found that the pre-polish wheel eliminated abrasions caused by common finishing stones. The Dialite wheel provided a high shine to the pre-polished area at approximately 10,000 rpm with light pressure applied to the handpiece. The Dialite-polished area was equal in luster to a glazed surface. The wheels work quickly at moderate speeds and light pressures. The Dialite wheel also smoothed the shoulder porcelain area. The lack of autoclavability of the Dialite wheels and points may complicate chairside use. This kit eliminates the need to reglaze after adjustment. The **Dialite Porcelain Polishing Kit** is rated **Acceptable** for use by the federal dental services.